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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/469,162 12/21/1999		MINORU MIYATAKE	Q57339	4626	
7:	590 05/08/2002				
SUGHRUE MION ZINN MACPEAK & SEAS PLLC 2100 PENNSYLVANIA AVE NW WASHINGTON, DC 20037			EXAMINER		
			CHUNG, DAVID Y		
			ART UNIT	PAPER NUMBER	
			2871		

DATE MAILED: 05/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Jeffrey Schwidt

			Applica	ion No.		Applicant(s)			
		-	09/469,	162		MIYATAKE ET AL.			
	Offic	Action Summary	Examin	er		Art Unit			
			David C	hung		2871			
		ING DATE of this commu	nication appears on t	he cover si	heet with the d	correspondence addres	s		
Period for	r Reply	STATUTORY PERIOD	FOR REPLY IS SET	TO EXPIR	RE 3 MONTH	(S) FROM			
THE M - Extens after S - If the I - If NO - Failure	MAILING E sions of time in SIX (6) MONT period for reple period for reple to reply with	DATE OF THIS COMMUI may be available under the provision HS from the mailing date of this cory specified above is less than thirty ty is specified above, the maximum in the set or extended period for rejuy the Office later than three month adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no nmunication. (30) days, a reply within the s statutory period will apply and bly will, by statute, cause the a s after the mailing date of this	event, however tatutory minimu will expire SIX	r, may a reply be tir um of thirty (30) day (6) MONTHS from	nely filed /s will be considered timely. In the mailing date of this commu ED (35 U.S.C. § 133).	nication.		
1)	Respons	sive to communication(s)	filed on						
2a)□	=	on is FINAL .	2b)⊠ This action	is non-fina	al.				
3)	Cinco th	ic application is in conditi	on for allowance exc	ept for forr	nal matters, p	prosecution as to the m	erits is		
Dispositi	closed in on of Cla	n accordance with the pra ims	actice under <i>Ex paπ</i> e	Quayle, 1	935 C.D. 11,	453 O.G. 213.			
4)	Claim(s)	is/are pending in	the application.						
	4a) Of the	e above claim(s) is	/are withdrawn from	considerat	ion.				
5)□	Claim(s)	is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-10</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
		are subject to res	triction and/or electio	n requirem	ent.				
Applicati									
9) 🗌	The spec	ification is objected to by	the Examiner.	N∏ abiaata	d to by the Ev	aminer			
10)	The draw	ing(s) filed on is/a	re: a) accepted or b)[_] objecte	u to by the Ex Lin abevance	See 37 CFR 1.85(a).			
	Applica:	nt may not request that any osed drawing correction	objection to the drawing	annrove	d b)∏ disapp	roved by the Examiner.			
11)						•			
If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner.									
			a to by the Examiner						
Priority	under 35	U.S.C. §§ 119 and 120 ledgment is made of a cla	nim for foreign priority	/ under 35	U.S.C. § 119	(a)-(d) or (f).			
				, 4,145, 55					
a)		Some * c) None of		heen recei	ved.				
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
	—								
*	See the a	application from the In attached detailed Office a	ternational Bureau (F ction for a list of the c	certified co	pies not recei	ived.			
14)	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
i	a) [] The	e translation of the foreigredgment is made of a cla	language provisiona	al application	on has been r	eceived.			
Attachme		J							
1) Not	tice of Refer	ences Cited (PTO-892) sperson's Patent Drawing Revie closure Statement(s) (PTO-14	ew (PTO-948) 49) Paper No(s)	4)	Interview Summ Notice of Inform Other:	nary (PTO-413) Paper No(s) nal Patent Application (PTO-	 152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 rejected under 35 U.S.C. 103(a) as being unpatentable over Hiji et al. (U.S. 5,953,089) in further view of Ouderkirk et al. (U.S. 5,825,543). Hiji et al. discloses a reflective liquid crystal display with light diffusing layer 30. This light-diffusing layer comprises a liquid crystalline polymer. See figure 1. Note the chemical formula of the liquid crystal polymer in column 4, line 55. The dimensions of the dispersed liquid crystal polymer particles are result effective variables, the determination of which has been judicially deemed as obvious to those of ordinary skill in the art.

Although Hiji et al. does not disclose the difference in refractive index between the continuous regions and the polymer dispersed regions, Ouderkirk et al. discloses an optical film where the index of refraction of continuous and disperse phases are substantially matched along a first orthogonal axis and substantially mismatched along a second orthogonal axis. The indices of the two regions differ by no more than 0.03 in the matched regions and differ by at least 0.07 in the mismatched regions. This type of scheme provides a high degree of control in providing optical bodies of consistent and

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predictable high quality performance. See column 7, lines 30 - 37. Therefore, it would have been obvious for one of ordinary skill to use the scheme taught by Ouderkirk et al. in the diffusing layer of Hiji et al. because of the aforementioned benefits.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (703) 306-0155. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

David Chung GAU 2871 05/06/02 Kenneth Parker Primary Examiner

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